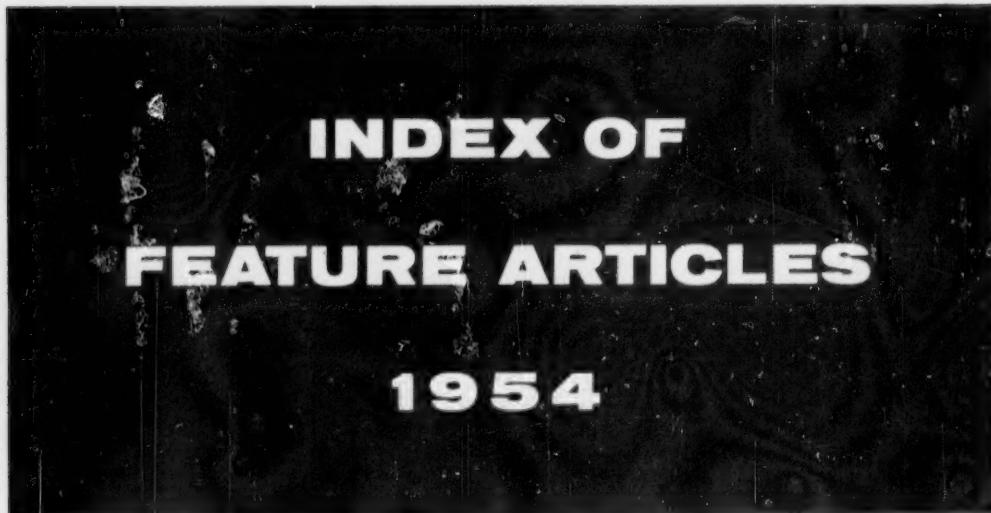
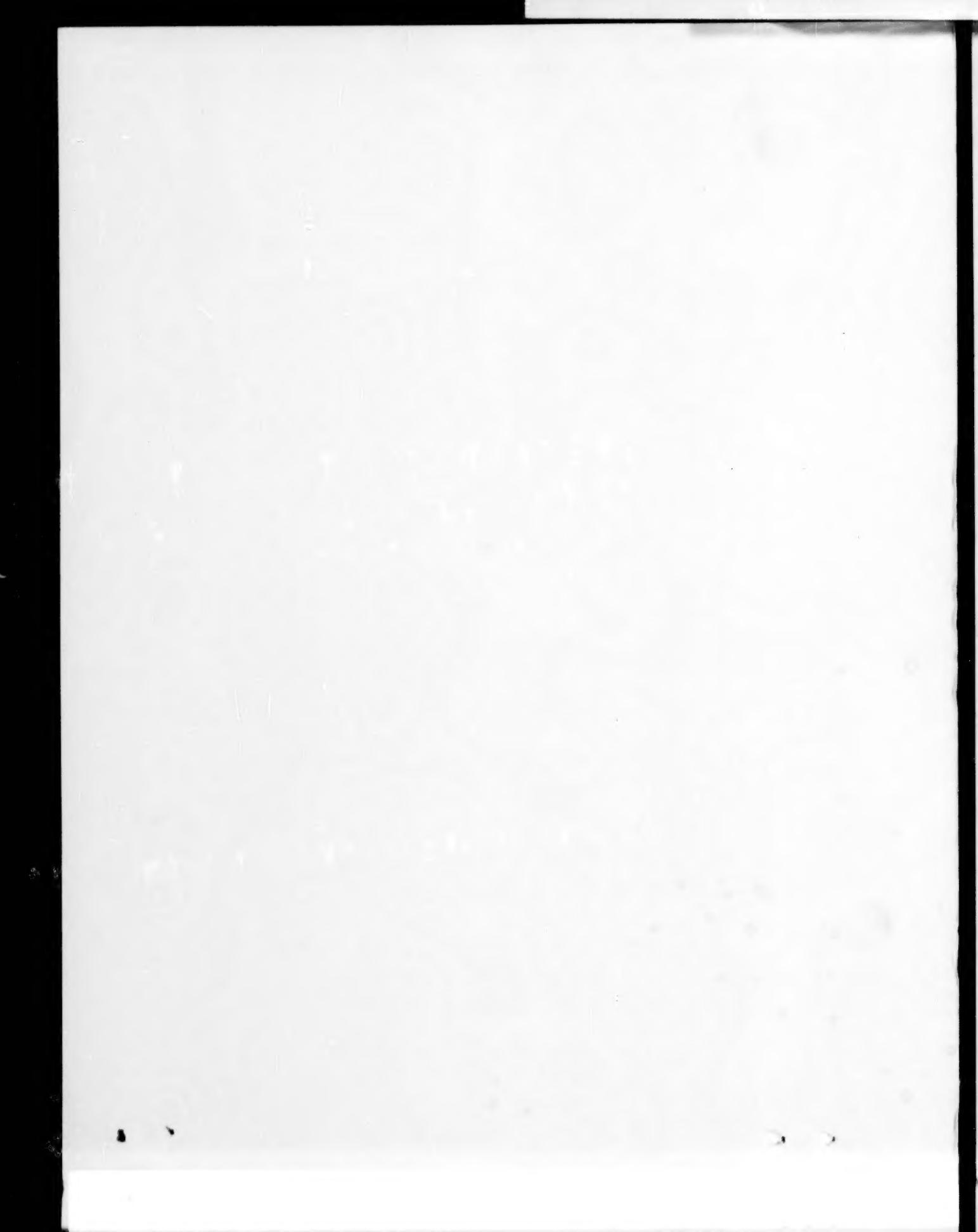


FLOW MAGAZINE



For quick reference, all articles which appeared in
FLOW Magazine during 1954 have been classified
in two sections — by subject matter, and by type of
principal equipment discussed.



CLASSIFICATION BY SUBJECT

ASSOCIATION AFFAIRS

- "AMHS Names Wunsch Award Winners" Feb. p. 98
"AMHS Prexy Cites Individual Efforts" Aug. p. 100
"Industry and Colleges Combine to Advance Science of Handling" June p. 79
"Integration of Transportation in Continuous Flow Systems" Dec. p. 61
Report on MHI Chicago Conference
"MHI Elects New Officers for 1954" Jan. p. 90
"Significant Developments of 1953". Jan. p. 73
Howard M. Palmer reviews the material handling picture.

BULK MATERIAL HANDLING

- "Handling Huge Quantities of Bulk Solids" May. p. 92
How to apply the right equipment at the right time.
"How Bulk Behaves: Part I" Oct. p. 74
A quantitative basis for evaluating conditions in bulk handling systems.
"How Bulk Behaves: Part II" Nov. p. 98
"Pneumatic Handling of Bulk Chemical Saves 2% per Ton" Jan. p. 80
Users of process ingredients get economies of bulk purchasing, shipping and handling.
"Windrow Loader--loose Bulk Handler" Dec. p. 71
Some new uses for these machines.

COMMUNICATIONS

- "Latest Techniques in Radio Applications" Dec. p. 64
Answers to questions most frequently asked about industrial communications.

COMMUNICATIONS (Con't)

- "Radio Serves Dual-Handling Functions" Sept. p. 74
Both area dispatching and central dispatching are utilized at Clark Equipment Company.
- "Reorganization Through Radio" May p. 90
How Lockheed Aircraft Corporation increased efficiency and plant security.
- "What's Ahead for Industrial Radio?" June p. 68
Herbert E. Markley presents a frank discussion of the problems facing users and potential users.

COST DETERMINATION

- "Incentive Standards Without Time Studies" Feb. p. 78
Aluminum Company of America applies work sampling technique to material handling operations.
- "Prerequisite for Cost Control" Mar. p. 61
C. J. Schwarzer tells how Westinghouse defines, determines and controls costs of handling.
- "The Department of 'Physical Distribution'" Apr. p. 67
Oscar F. Stewart describes a new concept in the organization of material handling.
- "A Practical Manual of Material Handling Procedure" May p. 79
An analytical approach to the establishment of practical methods and systems.
June p. 90
July p. 88
Aug. p. 92
Sept. p. 94
Oct. p. 90
Nov. p. 102
Dec. p. 80
- "Automatic Pallet Loaders: Another Step Toward Automation" Mar. p. 81
Advantages of pallet loaders are outlined; when to consider their use is discussed.
- "Beech-Nut Saves \$30,000 Annually" Aug. p. 83
This with a simple system incorporating containers.

COST DETERMINATION (Con't)

- "Everything's Mechanized but the Cow" Apr. p. 78
A highly modernized dairy has been developed upon sound material handling principles.
- "Food Handling Ideas" Aug. p. 84
Various methods employed to handle food.
- "Flow Re-Routing Leads to Profits" Nov. p. 89
A "custom built" handling system for both raw material and finished product.
- "Handling Methods for Metals" Nov. p. 75
A special FLOW study covering the handling, storage and positioning of metal shapes.
- "Legal Protection for Your Ideas" Sept. p. 100
George V. Woodling discusses patents, trademarks and copyrights.
- "LP-Gas Conversion Saves \$300 per Fork Truck" Mar. p. 72
How substantial savings have been returned in less than 7 months at a firm which is converting its trucks.
- "Macy's Overhauls Handling" Jan. p. 88
Highlights of a modernization program in a multi-story million-foot storage plant.
- "Material Handling in a 'Best Managed' Firm" July p. 82
About Eastman Kodak Company.
- "Material Handling in a 'Best Managed' Firm" June p. 65
About the B. F. Goodrich Company.
- "Mechanized Handling from Harvest to Processing" Aug. p. 69
Some of the latest concepts in handling food products.
- "New Speed for an Oil Plant" June p. 84
How Thermoid Company adapted modern methods to an old plant.

COST DETERMINATION (Con't)

- "Plant Review" June p. 70
Melvin Nord reviews some of the
more significant new patents related
to material handling. July p. 86
Oct. p. 88
- "Report on LP-Gas" Nov. p. 94
Various companies report on successful
conversions to LP-Gas.
- "Revolvator Reviews 50 Years of Progress" Oct. p. 87
This manufacturer of handling
equipment celebrates its 50th
anniversary.
- "Scale Models...Toys or Useful Planning Aids?" Mar. p. 68
Admiral Corporation proves the value
of scale models.
- "Special Delivery Is Routine for
'Mechanical Mailman' Conveyor" Mar. p. 84
A fast, efficient system of mail
delivery for 30 floors of a skyscraper.
- "Tips for Better Handling" July p. 70
Effective uses of material handling
equipment reported from bottling plants.
- "What Top Management Expects of
Material Handling" May p. 82
A discussion by Hugh J. Morrison of
Aluminum Company of America.
- "What's Wrong with Material Handling? Oct. p. 85
Byron W. Saunders of Cornell asks
the question; also brings up some
"what's rights".

HANDLING DURING PRODUCTION

- "Continuous Automatic Production" Dec. p. 74
P. H. Alspach of General Electric
tells how automation can be studied
profitably by almost every type of
plant and business.
- "Continuous Flow from Casting through Shipping" Jan. p. 82
Foundry and machining operations
are fully integrated in a General
Electric plant.

HANDLING DURING PRODUCTION (Con't)

- "Flow Re-Routing Leads to Profits" Nov. p. 89
- "Flow Systems in Food Processing" Aug. p. 78
How to provide greater output,
higher quality and easier housekeeping.
- "High-Speed Deliveries to Slow Assembly Lines" May p. 71
Qualified engineers said it couldn't
be done, but Donald W. Pennock tells
how Carrier Corporation achieved a
terrific production pace.
- "High-Speed Bottling of Costly Product" July p. 65
How controls safely maintain
maximum capacity.
- "Keep Flow Routes Untangled" Jan p. 76
Overhead and floor truck handling
team up for efficient production.
- "Safe Disposal of Broken Bottles" July p. 69
A solution to the problem of disposal
of rejected bottles and broken glass.
- "Semi-Automatic Handling through Plating" Feb. p. 86
How production of plumbing fixtures was
moved up and rejects kept down.
- "White Collar Foundry" Sept. p. 76
Conveyorized handling can make
it possible.

MAINTENANCE

- "Battery Charging, Care and Maintenance" May p. 75
Information on how to get the most
out of truck batteries.
- "Tips for Maintenance" Jan. p. 74
Examples of how material handling
equipment helps in maintenance work.

OLD SHAPE HANDLING

- "Bridge Crane Coordinates Heavy
Handling System" Sept. p. 92
Good material handling simplifies
processing of huge heavy, awkward
items.

OLD SHAPE HANDLING (Con't)

- "Conveyors Integrate Stetson's Multi-Plant Operation" May p. 86
A neat solution to the complex problem of tying together manufacturing and storing facilities.
- "Douglas Cuts Die-Handling Costs" Dec. p. 78
Details of Douglas Aircraft's efficient handling of dies between storage and drop hammers.
- "Easier Handling of 'Hard-to-Handle' Material" Jan. p. 68
A host of handling hints for many types of firms.
- "Handling for Long Hauls...Heavy Hauls" Mar. p. 76
Examples of how various firms have met these problems.
- "Rebuild the Plant--Or Revise the Handling?" Feb. p. 76
How an old and large manufacturer of leather products has solved handling problems.
- "Rolls Racked for Unitized Handling" Mar. p. 86
An efficient system for the transport and storage of rubber sheeting.
- "Strain-Free Assembly System" July p. 80
Assembly of bulky products is coordinated for safe, efficient flow.
- "Vacuum Cups Aid Sheet Handling" Sept. p. 80
Large sheets of glass can be safely handled through various operations.
- "Wire Shipping Containers Handle Granular Materials" July p. 77
A unique experiment to check damage costs of bagged shipments of granular materials.

SAFETY IN HANDLING

- "Handling Safety Aids" Feb. p. 95
Descriptions of safety material available from manufacturers.

SAFETY IN HANDLING (Con't)

"Safe Scrap Handling" Oct. p. 94
Properly handled, scrap can turn
headaches into profits.

SELECTING EQUIPMENT

"Door Controls Can Close Profit Leaks" Aug. p. 94
Why automatic or semi-automatic door
operating devices should be considered.

"Effect of Tire Design on Electric
Truck Performance" Aug. p. 89
A comprehensive report on
industrial tires.

"For Economical Handling, Consider
Castered Equipment" Oct. p. 78
Edward L. Lee tells of the importance
of proper selection of casters.

"Magnetic 'Muscles' for Heavy Handling" June p. 86
Latest word on the use, care
and operation of electromagnets.

"More Work for 'Walkies'" Feb. p. 82
A manufacturer of walkie-type
industrial trucks tells of
many basic and special types
available.

"Personnel Carriers--Supervision Tool,
Safety Aid" Dec. p. 68
Where walking takes time and costs
money, personnel carriers may prove
profitable.

"Pump Handling Systems" June p. 72
"Pumpable" materials and equipment
for handling them.

"Selection Factors to Consider When
Purchasing a Fork Truck" Jan. p. 65
Five proposed selection factors to
take guesswork out of fork truck
selection.

"Special Trucks for Handling Special Jobs" Oct. p. 80
When and where "specials" are
economical.

SELECTING EQUIPMENT (Con't)

"What the Purchasing Agent Should Know About Portable Conveyors" Feb. p. 71
Pointers and picture examples to help a buyer select this type of equipment.

WAREHOUSING AND STORAGE

- "'Area Method' of Order Selection" June p. 80
A highly-efficient conveyor system.
- "Callao" Aug. p. 86
How North American handling methods made it South America's most modern port.
- "Complete Control of Constant Changes" Apr. p. 84
General Shoe Company handles 26,000 items through a central raw-material warehouse.
- "Conveyorized Storage for Small Items" Dec. p. 82
A system for continuous control of small component parts and commodities.
- "Engineered Warehousing" Feb. p. 88
Step-by-step development of a modernization plan in which handling and order-picking systems determine building design.
- "Guesswork Eliminated at Ford with Fork Truck Scales" Dec. p. 72
How a stores department used fork truck scales to good advantage.
- "In-and-Out Warehousing Designed for 'Tomorrow'" Jan. p. 78
A distributing firm which installed handling equipment for anticipated requirements.
- "Low-Cost Warehouse Modernization" July p. 74
A warehouse overcame its "growth pains".
- "Material Handling in a 'Best Managed' Firm" Oct. p. 71
About The Grand Union Company

WAREHOUSING AND STORAGE (Con't)

- "Order-Picking System Provides One-Day Wholesaler Service" Sept. p. 88
Production-line techniques applied to drug warehousing.
- "Semi-Automatic Stock Operations" Apr. p. 69
Warehousing, order picking, shipping and stock control can be almost fully mechanized.
- "Standarized Operations Cut Handling Time 65%" July p. 90
Brewer's distributor organization utilizes latest concepts in distribution handling.
- "Storage Systems for Case Goods" Sept. p. 85
Warehouse capacity upped 50 per cent with fork truck and prefabricated racks.
- "Synchronized Experimentation" June p. 82
How Ford improved its parts depot operations.
- "Systemized Warehousing Practices Expedite Large Volumes" Apr. p. 76
Through latest handling techniques, Colonial Stores receives, stores, and ships 2,800,000 pounds of groceries and produce weekly.
- "3-Way Space Saving" Apr. p. 86
Ingenuity eliminates the need for a plant addition.
- "Warehousing Costs Can Be Cut in Half" Apr. p. 74
- "Warehousing Incentive System" Sept. p. 82
Scrivner-Stevens Company effects an increase of .4 tons per man-hour.

YARD HANDLING

- "Cranes Mechanize Pulpwood Operations" May p. 100
Getting wood from the forest to the mill.
- "Good Planning Makes the Difference" Mar. p. 66
Advantages which are derived from a well-planned outdoor storage area.

YARD HANDLING (Con't)

- "High Efficiency with Minimum Capital Investment" Jan. p. 86
Careful scheduling of yard bulk handling operations pays off.
- "Pointers for Higher Yard Productivity" Feb. p. 92
Tips for plants planning new or expanded outdoor operations.
- "Power Cranes Prove Adaptability in Steel Mills" July p. 78
Cranes' role in mill operations from unloading raw materials to loading finished products.
- "Stockpiling Systems" Sept. p. 71
Three basic methods and where each should be employed.

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BATTERIES AND CHARGERS

- "Battery Charging, Care and Maintenance" May p. 75

CASTERS

- "For Economical Handling, Consider Castered Equipment" Oct. p. 78

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- "A Practical Manual of Material Handling Procedure" Sept. p. 94

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- "Keep Flow Routes Untangled" Jan. p. 76
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PACKAGING AND SHIPPING SECTION ARTICLES

CLASSIFICATION BY SUBJECT

ASSOCIATION AFFAIRS AND EXHIBITIONS

- "Box Competition Awards" May p. 132
Announcement of award winners by
Fibre Box Assn.
- "Material Handling, a Big Feature
at The Exposition" May p. 136
Report on proceedings and exhibits
at the 23rd National Packaging
Exposition.

ASSOCIATION AFFAIRS AND EXHIBITIONS (Con't)

- "National Packaging Conference and Exposition" Apr. p. 137
List of exhibitors and pre-show information.
- "9th Industrial Packaging and Material Handling Exposition" Sept. p. 13⁴
List of exhibitors and pre-show information
- "Report on the SIPMHE Exposition" Nov. p. 138
Every exhibit described...three outstanding talks, on cost control published from the short course prize-winning containers illustrated and described.

CLOSING AND UNITIZING

- "Four-Step Rope Packaging" Aug. p. 103
Special air-operated closing units at Columbian Wire Rope Co. have cut costs of rope packaging.
- "Gentle 'Flip-Flop'" Apr. p. 134
Unique device used by Olympic Radio & Television, Inc., to up-end packages for bottom sealing. Annual savings reported to be \$24,000.
- "Important Aid to Packaging" May p. 142
Pointers for selection and proper use of gummed tape.
- "Low-Cost Brick Package" Dec. p. 118
A steel-strapped unit load and a hand truck with adjustable forks have resulted in big savings for Streator Brick Co.
- "Selection Guide for Standard Strapping Tools" June p. 118
The first article ever published to categorize strapping tools by type and by use.
- "Taping Different Size Units" July p. 108
Automatic machine is used by Bristol Myers for high-speed combining of regular and free-trial-size packages into a 'deal'.

CLOSING AND UNITIZING (Con't)

- "Unitized Cargo-Handling Methods" Nov. p. 148
Three methods at Alaska Steamship
Co. resulted in 60% safer and three-
times-faster handling and shipping.
- "What the Purchasing Agent Should
Know About Stitching and Stapling Equipment" Mar. p. 103
Complete discussion of types of machines
available and for what they can be used.

FILLING

- "Automatic Caser for Gable-Top Cartons" Aug. p. 108
Page Dairy Co. is first company to
realize benefits of Automatic
casing of gable-top milk cartons.
- "Bags Ensure Sweet Corn" Aug. p. 106
High speed method of filling iced
bags keeps sugar in corn from turning
to starch.
- "Coordinated Flow--'Secret' of Success" Dec. p. 114
Discussion of considerations necessary
to achieve successful canning operations.
- "Efficient Multi-Story Bottling" July p. 118
More than 50 receiving, shipping,
packaging and storing operations are
co-ordinated at Blatz Brewing Co.
- "Found: More Floor Space" Sept. p. 137
Through a new corrugated container
American Steel and Wire Co. has been
able to reduce considerably the space
and time formerly required for nail-
packaging.
- "Mechanized Pre-Packaging of Fresh Produce" Aug. p. 104
Robert G. White, President of R. G.
White Engineering Co. discusses
factors to consider in designing
food packaging lines.
- "Packaging Requires Handling Know-How" Apr. p. 121
Focuses attention on importance of
care in planning special handling
operations which transfer products
into containers.

FILLING (Con't)

- "67% Less Packaging and Handling Time" June p. 130
North American Aviation uses one machine for many sizes, shapes and quantities of small parts.
- "Triple-Duty Container" Nov. p. 16⁴
Wirebound crate serves as work carrier, in process storage container and shipping container.

INTERIOR PACKAGE DESIGN

- "Liquids Shipped in Fibre Drums" Jan. p. 10⁴
Rohm & Haas eliminated high costs of old method of shipping textile and leather dyes.
- "Nomogram for Solving Cushioning Problems" Aug. p. 110
A simple method of selecting type and thickness of cushioning materials and of determining how to use it.
- "Protecting Against Shock and Vibration" Oct. p. 140
Nine proven methods of preparing products to withstand rough handling.
- "Protective Packaging...Important to Safe Handling" Apr. p. 129
Three basic ways in which protective packaging does its job.
- "Safe Package for \$1,200 TV Tubes" Feb. p. 111
Diamond Power Specialty Corp. uses corrugated containers, rubberized hair cushioning, and die-cut braces to protect tubes in transit.
- "Weapons for the Battle Against Moisture" Oct. p. 144
Thorough discussion of moisture problems and methods of combating them.

MARKING

- "A New Idea for Efficiency in Warehousing and Shipping" Jan. p. 100
Closely co-ordinated system of bill of lading and invoice preparation, scheduling, order filling, marking and loading of vehicles at Johnson & Johnson.
- "Proper Packaging is a Factor in Efficient Handling" Apr. p. 125
Standardized labels resulted in substantial savings in in-and-out warehouse handling at Behr-Manning Corp.
- "Six-Times Faster Marking" Feb. p. 118
Waldes-Kohinoor, Inc., saves 81.48% of time formerly required to address every six packages shipped.

MILITARY PACKAGING

- "Are Military Packaging Standards Wasting Money?" May p. 131
Capt. C. A. Blick, SC, USN, tells "Why" of high military standards.
- "Nomogram for Solving Cushioning Problems" Aug. p. 110
A significant development by Container Laboratories, Inc. for Bureau of Ordnance, Naval Ordnance Lab., Dept. of the Navy.
- "What's Ahead for Package Testing Techniques" Sept. p. 147
E. H. Borkenhagen of Rossford Ordnance Depot discusses three problems confronting container testing engineers.

PACKAGE DESIGN

- "9½ Tons Less Tare Weight = \$20,300." Mar. p. 107
Results of a change in packaging method for cotton picking machines made by International Harvester Co.

PACKAGE DESIGN (Con't)

- "Packaging Engineering...Its Application
Its Possibilities" July p. 111
I. R. Hogancamp, Western Electric Co.,
discusses packaging at his company.
- "Packaging Engineering Aids Efficiency" May p. 139
John W. Kraus, Thompson Products Co.,
discusses effect of packaging on ware-
housing, handling on dock and in
production, inter-plant transportation
and all activities related to packaging.
- "Packaging is More Than Skin Deep" Apr. p. 119
Group of three articles discussing
material handling knowledge required
by the packaging engineer.
- "Storing Nails and Screws in 25% Less Space" Mar. p. 119
Results of a new corrugated shipping
container used by Western Automatic
Screw Co.
- "You Pay for Damage Insurance" Oct. p. 132
Alvin S. Roberts, Insurance Co. of
North America, discusses tangible
and intangible costs which result
from poor packaging.

PACKAGING DEPARTMENT OPERATIONS

- "Efficient Multi-Story Bottling" July p. 118
More than 50 operations are
co-ordinated by continuous
handling system at Blatz Brewing Co.
- "Found: More Floor Space" Sept. p. 137
It was like finding 75% more floor
space when American Steel & Wire Co.
put into operation a new system for
packaging nails in corrugated boxes.
- "Humidity Conditioning Aids Packaging" Mar. p. 110
Moisture-sensitive packaging materials
are protected by de-humidifying equipment
at Milprint, Inc.
- "Mechanized Pre-Packaging of Fresh Produce" Aug. p. 104
Robert G. White discusses factors
to consider in designing a food
packaging line.

PACKAGING DEPARTMENT OPERATIONS (Con't)

- "Packaging Requires Handling Know-How" Apr. p. 121
Focuses attention on the importance
of planning carefully the specific
handling operations which transfer
products into containers.
- "Punch Card Control of Pre-Packaging
and Inventory" Dec. p. 110
How Yale & Towne insured success for
a new service parts department.
- "When is an Automatic Pallet Loader
Justified?" Dec. p. 120
Not all packagers can use an automatic
pallet loader economically. Here are
formulas for determining the economical
break-even point for using the machines
in any plant.

TESTING PACKAGES

- "An engineering Approach to Shock
and Vibration" Oct. p. 137
Test Methods used by Engineer
and Development Laboratories,
Corps. of Engineers, U.S. Army.
Written by F. Stowell, H. C. Pusey,
K. M. Carr.
- "How Much Vibration Can Your Packages Take?" Feb. p. 113
Constant vibrations resulting from
car wheels striking rail joints,
rough highways, etc., can result
in expensive damage. Vibration
testing machines and how to use
them in combating vibration are
discussed in this article.
- "Vector Nomograph Helps Simplify Study
of Impacts" Jan. p. 106
Dr. H. E. Morgan, head of Physics
Dept. at Fenn College describes and
tells how to use a vector nomograph
to determine exact direction and
magnitude of any impact which has
been detected by an impact recorder.
- "What's Ahead for Package Testing Techniques" Sept. p. 147
E. H. Borkenhagen of Rossford Ordnance
Depot discusses three problems con-
fronting container testing engineers.

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- "Equipment for Rain-or-Shine Loading" Jan. p. 108
By Jim McCabe, chief industrial engineer, The American Maize Products Company. Elimination of a costly, troublesome situation which formerly arose every time it rained or snowed.
- "'Fish Net' Simplifies LTL Problems" May p. 129
Method for separating LTL orders has increased productivity at R. Godfrey & Sons, wholesale grocers.
- "How to Load Trucks from Ground Level" Sept. p. 144
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- "NYC Increases Payload 50% in Transportation of Automobiles" June p. 116
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- "Piggy Back..A Progress Report" Feb. p. 117
Here's what is being done by manufacturers of material handling equipment to help further this unusual method of transporting trailers.
- "Underpass Drops Overhead...Beats Shipping Roadblock" Mar. p. 115
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- "Unitized Shipping of Odd Shapes" July p. 116
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- "A System to Slash Costs of Handling
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Equipment Co. Material Handling
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The Science of Packaging, main theme for show.
- "The SIPMHE Short Course" Nov. p. 110
Abstracts of some of the significant papers presented at the SIPMHE Exposition.
- "Use of Pallets" July p. 108
A Talk given by William H. Sardo, Jr., of the National Wooden Pallet Manufacturers' Association at the National Material Handling Exposition.

CLOSING AND UNITIZING

- "Automatic Bundle Tying" Aug. p. 108
How the Milwaukee Journal stepped up
mail room operations.
- "High-Speed Stapling Operation" Aug. p. 106
Fast, economical closures have brought
about profitable and effective innov-
ations in shipping rooms.
- "On-The-Job Unitizing" Apr. p. 132
Flooring contractor reduces handling
and eliminates pilferage.
- "Strapping Cart Speeds Packaging" Nov. p. 116
Special strapping cart eliminates the
lifting of cartons to slip strapping
underneath.
- "Unitizing Method for Heavy Rolls" July p. 106
Protective measures for packaging and
shipping aluminum foil.
- "Unitizing System for Soft Goods" Feb. p. 122
Baling press used by Fisher-Norwalk
to produce unit loads of soft goods.

FILLING

- "Packaging 40,000 Units per Minute" Feb. p. 124
Three automatic machines and a well-timed
conveyor package 10,000 cigarettes in 15
seconds.
- "'Quick Delivery' ... Vital Sales Tool" Jan. p. 100
Speed in filling and delivering orders is
important in almost any phase of industry.
- "Remote Weighing for Better Handling" Feb. p. 126
The propellant for pressurized cans must
be handled out of tank cars, into and out
of storage tanks, and into containers.
Close control is required to prevent costly
leakage and evaporation losses.

INTERIOR PACKAGA DESIGN

- "A Package for Every Need" Oct. p. 114
Various methods of packaging automatic welding wire developed by the Page Steel and Wire Division of American Chain & Cable Company.
- "Simple Carton for Complex Job" Dec. p. 114
Simple, inner-pack sections used to solve complex packaging problem.

MILITARY PACKAGING

- "Double-Duty Containers Designed for the Air Age" June p. 120
How the Air Force saves with reusable, modular containers.
- "The Military Distribution Puzzle" May p. 184
New equipment and procedures being developed by the Transportation Corps to insure rapid movement of materials and men.

PACKAGE DESIGN

- "Compression Packing Fibrous Material" Apr. p. 120
Multiwall paper sacks used to package asbestos fibers.
- "Food-Type Cans Cut Costs in Industrial Applications" Mar. p. 144
A new packaging method using tin-lined steel cans.
- "Home-Made' Box Making System" Feb. p. 128
TEMCO Aircraft Corporation develops a system for making its own cartons.
- "King-Size Containers" July p. 112
Synthetic rubber containers for shipping bulk products.

PACKAGE DESIGN (Cont.)

- "Packages Geared to Continuous Production" May p. 176
Forthcoming developments in cities,
industries, and transportation will
require improvements in packaging and
shipping containers.
- "Packaging, Warehousing and Shipping Savings" June p. 130
Corrugated cartons for stainless steel
conveyor screws produced time-and space-
savings.
- "'Peep-Hole' Carton" Mar. p. 140
A new carton developed to allow quick
inspection or adjustment of material
inside.
- "Protection for Heavy Unit" Dec. p. 108
Corrugated boxes used to protect house-
hold water pumps.
- "Rigid Specs Fight Tarnish" Oct. p. 110
Packaging materials may not exceed the
sulphur limit of .0008 percent.
- "Shipping Live Fish in Corrugated Boxes" July p. 110
Polyethylene-lined corrugated boxes
replace tins for shipping fish alive.

PACKAGING DEPARTMENT OPERATIONS

- "Better Package = Better Handling" Aug. p. 112
More efficient handling and better use
of warehouse space by stacking tubes of
carpet yarn directly on wood pallets.
- "Continuous Flow in Packaging and Shipping" July p. 102
How a conveyor system saves manhours by
reducing handling operations.
- "Efficient Handling of Small Shipments" Aug. p. 103
Recommendations for cutting over-all
distribution costs for small shipments.
- "80% Reduction in Cost of Handling" Oct. p. 108
Packaging bricks into steep-strapped
loads.

PACKAGING DEPARTMENT OPERATIONS (Cont.)

- "Good Handling Improves Packaging" July p. 104
Aircraft Radio puts a machine handling unit on a special packing line.
- "Heavy but Fragile" Aug. p. 110
Protecting large, porcelain enamel-ware during shipment.
- "Packaging for Automation" Dec. p. 110
Automatic belting of fixed resistors and capacitors on narrow belts of pressure-sensitive tape is helping the Allen-Bradley Company to keep pace with the growing demand for automation in the electronics industry.
- "Packaging Room ... 1965" May p. 172
A tour through the packaging room of the future.
- "Production-Line Small Parts Packaging" Oct. p. 112
A plastic coating is used to protect and identify connectors.
- "Profitable Handling of Small Orders" Jan. p. 104
New profits await the wholesaler who is willing to redesign his handling methods.
- "Unit Loads for Export Shipments" Jan. p. 110
Packaging time reduced 50% by Congoleum-Nairn.

PACKAGING SPECIFICATIONS

- "Application of Industrial Logistics" Oct. p. 104
The art or operations required in the preparation of goods for packing, marking, shipment, storage and delivery to consumer.
- "Packaging Engineering ... Part of 'Industrial Logistics'" Sept. p. 146
The relationship between packaging engineering and material handling.
- "Preparing Shipments for Air Freight" June p. 116
Some factors to consider when shipping by air.

PACKAGING SPECIFICATIONS (Cont.)

- "Product Safety . . . a Function of Packaging Dec. p. 104
 What causes damage in transit and how to
 protect against it.
- "Standardized Packaging Benefits Everyone". Apr. p. 126
 Rola Corporation's standardized packaging
 program pays off.
- "The Field of 'Packaging Material Handling' " Sept. p. 154
 Charles H. Pearce describes the cycle it
 encompasses.
- "What Is a Packaging Engineer?" Sept. p. 141
 Earl B. Candell, president of SIPMHE
 gives the answer.
- "What is the Government Doing About Package
Standardization?" Apr. p. 122
 Activities of three agencies in obtaining
 Standards.

TESTING PACKAGES

- "Container Seals and Shock Mitigation
Methods" Mar. p. 134
 Testing procedures used by Sandia Corp.,
 and their results.
- "Testing Plastic Packages" Nov. p. 120
 Aims of Bakelite's new experimental
 packaging laboratory.

VEHICLE LOADING

- "Air Freight Too Costly?" June p. 122
 Actually, it can be used to cut distribution
 costs.
- "Anyone Can Have a Loading Dock" Jan. p. 108
 Lack of adequate loading dock facilities.
 need no longer be a problem.
- "New Idea in 'Piggy-Back'" Mar. p. 142
 Trucks, trailers and flat cars can be
 adapted for hauling vans.

VEHICLE LOADING (Cont.)

- "Production-Line Methods for Shipping" May p. 178
The plant of the future will require
high-speed, smooth-moving distribution
methods.
- "Radar Protects Shipments" Feb. p. 118
An electronic device developed for directing
guided missiles now directs freight cars.
- "Special Cars Cut In-Transit Damages" Oct. p. 102
How built-in bulkheading results in lower
shipping costs.
- "The Safety-Efficiency Ratio in Cargo Handling" Dec. p. 102
How United Air Lines improved their S-E
Ratio.

CLASSIFICATION BY EQUIPMENT

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- "Protection for Heavy Unit" Dec. p. 108

DOCK ACCESSORIES AND VEHICLE LOADING DEVICES

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